

ABSTRACT

The compensation of a DC offset, an I/Q level ratio, the turbulence of I/Q orthogonality, a synchronous shift, and a phase rotation owing to differences between feeder lines, all being primary factors of waveform distortion that is fixedly added to a reception signal, is realized by digital signal processing. Consequently, the compensation operation can be performed by simple processing. Thereby, each compensation operation that was conventionally complex can be omitted.

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